

Aminophosphate monoester – diethylpiperazine- $N,N'$ -bis(methylenephosphonate) was prepared. Acid-base and coordination properties of the ligand were studied by potentiometry. Protonation constants and stability constants with selected ions of transition metals –  $Co^{2+}$ ,  $Cu^{2+}$ ,  $Ni^{2+}$  and  $Zn^{2+}$  were determined.